User Manual

USB3.0 Active Optical Cable

EPU3C-A0A0B100M

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Revision 1.0

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Introduction

The EverPro Technologies **EPU3C-A0A0B100M** USB3.0 Cable is a kind of Active Optical Cable (AOC) used to extend the transmission distance of USB3.0 transmission up to 100m+.
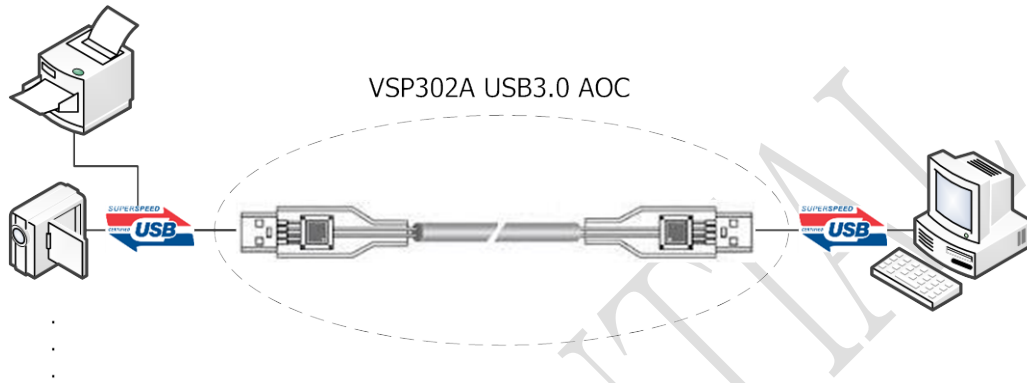

Figure 1. EPU3C-A0A0B100M Overview

EPU3C-A0A0B100M has two USB3.0 Standard-A connectors, and each end of this connector has one chip (V0510) to complete the conversion of photoelectric and electro-optical, and the middle connecting line is high-speed multimode optical fiber transmission signal. Without any other connector or power adapter, EPU3C-A0A0B100M is powered by vBus of two USB3.0 Standard-A connectors.

CAUTION: EPU3C-A0A0B100M supports only USB3.0 compatible devices, but with the Optional Accessories, U3D02AR or U3H02AR, USB 2.0 and 1.1 compatible devices can also be supported.

Features

- Convert USB3.0 electrical data signal to optical signal
- Extend USB3.0 cable to 100m+
- Resistant to EMI/RFI
- USB3.0 Standard-A Compatible
- Supports USB3.0 @ 5Gbps
- Single USB bus 5V power supply
- True plug and play (no software drivers)

● Low power consumption

Requirements

To complete installation of the EPU3C-A0A0B100M, you will also require the following items that are not included with the product:

● USB 3.0 compatible computer (host computer) with a USB 3.0 compliant operating system
● USB 3.0 compatible device

Note: with the Optional Accessories, U3D02AR or U3H02AR , USB 2.0 and 1.1 devices can also be supported.

Optional Accessories

● EPU3D02AR (EverPro Technologies SuperTT dongle with A receptacle. AOC supported)
● EPU3H02AR (EverPro Technologies USB Expressway hub with A plug, including USB 3.0 Hub and SuperTT, AOC supported)

The Supported Devices and Port Number of the Optional Accessories is as follows:

	USB3.0 Device	USB2.0 Device	USB1.1 Device	USB1.0 Device	Downstream Port Number
EPU3D02AR	√	√	√	√	1
EPU3H02AR	√	√	√	√	4

Note:

Development Kit of USB3.0 AOC includes USB3.0 AOC, U3D02AR and U3H02AR.

If you want, you can view the development kit user guide document of USB3.0 AOC.

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NOTE:

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

  —Reorient or relocate the receiving antenna.

  —Increase the separation between the equipment and receiver.

  —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.